

**APPENDIX 1  
FIGURE 4  
HAZARD IDENTIFICATION VULNERABILITY ASSESSMENT (HIVA)  
SUMMARY MATRIX**

<b>Service Location:</b> <b>Date:</b> <b>POSSIBLE COROLLARY IMPACTS</b>	<b>Explosion</b>	<b>Flood/ Urban flood</b>	<b>Landslide</b>	<b>Mud/Rock Flow: Ash</b>	<b>Nuclear Event</b>	<b>Wild Fire</b>	<b>Tsunami</b>	<b>Domestic Water</b>	<b>Power Outage</b>	<b>Communication System</b>	<b>HVAC</b>	<b>Trouble/Fire Alarm</b>	<b>Elevator</b>	<b>Medical Emergency/Epidemic</b>	<b>Spills/Releases</b>	<b>Infrastructure failure: Roads, bridges, etc.</b>	<b>Energy Emergency</b>	<b>Urban Fire</b>	<b>Toxic Gas/Acid Rain</b>	<b>Dam Failure</b>	<b>Terrorism</b>	<b>Riots/Looting On-Site/Off-Site Disturbance</b>	<b>Sabotage</b>	<b>Strikes/Fuel Shortages</b>	<b>Building Shut-down</b>
<b>PRIMARY HAZARDS</b>																									
<b>A. Natural Hazards</b>																									
Earthquake																									
Flood																									
Landslide																									
Severe Storm (ice, snow, wind, rain, etc.)																									
Drought																									
Volcano																									
Wild Fire																									
<b>B. Operational Incidents</b>																									
Domestic Water Systems																									
Power Outage																									
Communication System																									
HVAC																									
Trouble/Fire Alarm																									
Elevator																									
Medical Emergency																									
<b>C. Technological Hazards</b>																									
Hazardous Material Spills/Releases																									
Airplane Crash																									
Energy Emergency																									
Urban Fire																									
Explosion																									
Dam Failure																									
<b>D. Human Imposed Causes</b>																									
Terrorism																									
On-Site/Off-Site Disturbance																									
Sabotage																									
Strikes/Fuel Shortages																									